Contact
Cables for Industrial Applications
Phone: 01908 250840
iandi.sales@nexans.com

SIWO-KUL® B10 3.3/4.2 kV

SIWO-KUL® B10 3.3/4.2 kV MV high temperature flexible cables designed with a PET braid, PUR varnished

Description

SIWO-KUL® B10 cables are required when high flexibility and high temperature conditions are present; they are mainly used in medium-voltage motors and generators for connecting stator coils to the terminal box. They are also vital elements for wind converters, transformers, solar power inverters and other MV/LV cabinets. In drives, silicone decreases copper cross-section and gives flexibility for compactness.

SIWO-KUL® B10 13.3/4.2 kV cables are class 5 single core cables.

This product family is designed with a **PET braid, PUR varnished** providing our customers much flexibility according to their process (VPI…).

Construction

- Copper conductor tinned, flexible IEC 60228, class 5
- Silicone rubber insulation
- Separator tape
- Protective synthetic yarn braiding, PUR varnished

The **use of silicone rubber**, a high grade corona resistant insulation material, gives the cable **excellent dielectric strength**. The braided synthetic yarn covering, which is applied directly over the insulation, gives the cable, because of its short braiding pitch and high compactness, **an excellent mechanical protection by maintaining good flexibility**.

Operating temperature for continuous service extends from –55°C up to 180°C.

This product family is also part of our Windlink® offer for Wind turbines.

RoHS
REACh

Approvals

These cables are UL (Underwriters Laboratories inc.) approved for Appliance Wiring Material (AWM), following styles 3640, 3641, 3642 and 3643, CSA File No.: 036040-0-000.
SIWO-KUL® B10 cables are in compliance with EU directives on the limits of certain metals and waste as defined on ROHS (Restriction of Hazardous Substances) and WEE (Waste from Electrical and Electronic Equipment).
SIWO-KUL® B10 is REACH conform substances benzene, C10-C13).

Standards

International IEC 60092; IEC 60331; IEC 60332-1; IEC 60332-3 Cat.C; IEC 60332-3-24; IEC 60754-1; IEC 60754-2; IEC 61034; IEEE 383; LLOYDS Reg. 91/00126(E1); UIC 895

National BSS 6195-T5-C-D-E-F; CSA C22.2 N° 210-05; DIN VDE 0472; NF F 16-101/BF1

Halogen free	Operating temperature, range	Chemical resistance	Oil resistance	Flame retardant	Fire retardant	Fire resistant	Gases corrosivity
Yes	-55 .. 180 °C	Good	Yes	IEC 60332-1	IEC 60332-3	IEC 60331	IEC 60754-1, IEC 60754-2

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Characteristics

Construction characteristics	
Halogen free	Yes
Dimensional characteristics	
Precision of diameter	+/- 0.3 mm
Usage characteristics	
Operating temperature, range	-55 .. 180 °C
Chemical resistance	Good
Oil resistance	Yes
Flame retardant	IEC 60332-1
Fire retardant	IEC 60332-3
Fire resistant	IEC 60331
Gases corrosivity	IEC 60754-1, IEC 60754-2
Smoke density	IEC 61034
Ozone resistance	Yes
U.V resistance	Yes

Product List

=Make to order, =In stock

Nexans ref.	Name	Operating voltage (kV)	Conductor cross-section (mm²)	Nominal outer diameter (mm)
10148775	SIWO-KUL B10 1x2.5 3,3/4,2kV RD	3.3	2.5	6.3
10148776	SIWO-KUL B10 1x4.0 3,3/4,2kV GY	3.3	4	6.8
10148756	SIWO-KUL B10 1x6.0 3,3/4,2kV RD	3.3	6	7.25
10148757	SIWO-KUL B10 1x10 3,3/4,2kV RD	3.3	10	8.2
10148758	SIWO-KUL B10 1x16 3,3/4,2kV RD	3.3	16	10.35
10148759	SIWO-KUL B10 1x25 3,3/4,2kV RD	3.3	25	12.0
10148752	SIWO-KUL B10 1x 35 3,3/4,2kV RD	3.3	35	13.2
10148762	SIWO-KUL B10 1x50 3,3/4,2kV RD	3.3	50	15.4
10148760	SIWO-KUL B10 1x70 3,3/4,2kV RD	3.3	70	17.25
10148763	SIWO-KUL B10 1x95 3,3/4,2kV RD	3.3	95	19.2

= Make to order, = In stock

Halogen free
Yes


Operating temperature, range
-55 .. 180 °C


Chemical resistance
Good


Oil resistance
Yes


Flame retardant
IEC 60332-1


Fire retardant
IEC 60332-3


Fire resistant
IEC 60331


Gases corrosivity
IEC 60754-1, IEC 60754-2

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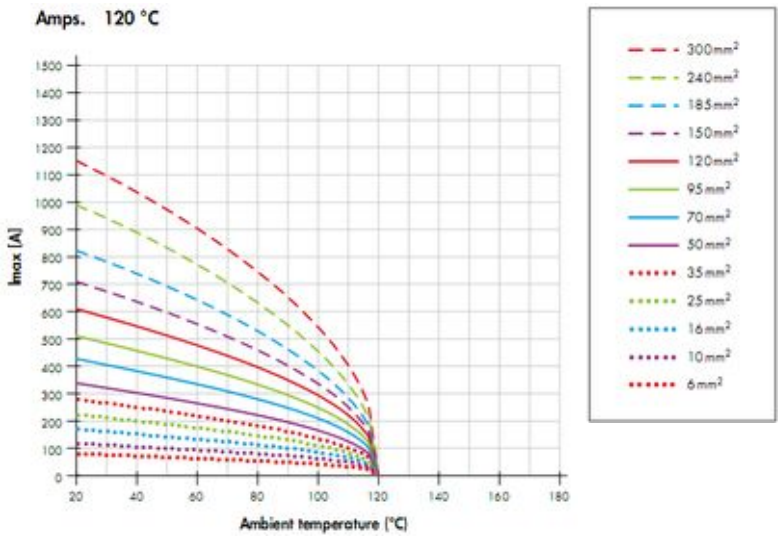
Nexans ref.	Name	Operating voltage (kV)	Conductor cross-section (mm²)	Nominal outer diameter (mm)
10148753	SIWO-KUL B10 1x120 3,3/4,2kV RD	3.3	120	21.15
10148754	SIWO-KUL B10 1x150 3,3/4,2kV RD	3.3	150	23.1
10148766	SIWO-KUL B10 1x185 3,3/4,2kV RD	3.3	185	25.1
10148755	SIWO-KUL B10 1x240 3,3/4,2kV RD	3.3	240	27.5

= Make to order, = In stock

Permissible continuous current carrying capacity 3kV

Cables separated: 1D

The values determined from the diagram are based on the following assumptions:
a) Cables separated.
Space between adjacent cables ≥ 1 x d.
b) Conductor temperature = See tables below
c) Without additional cooling.
Suffcient natural air fow ensured.



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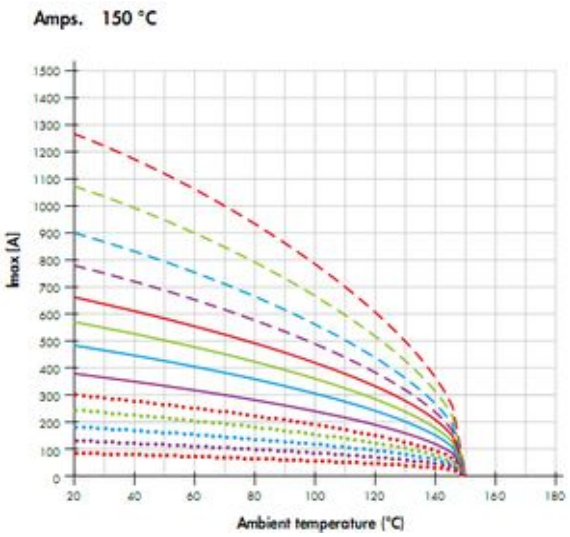

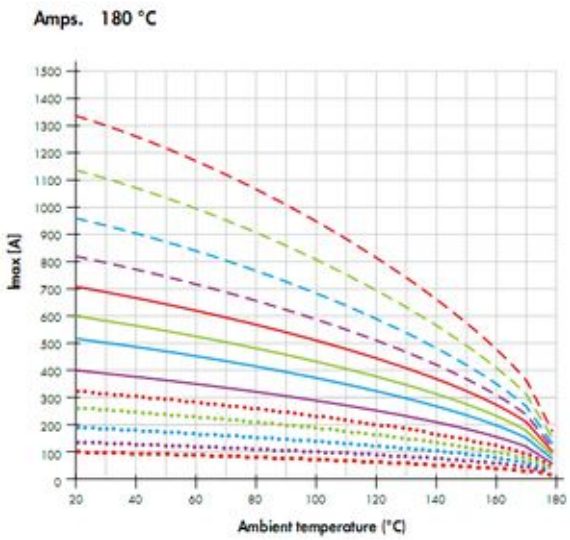

Selling information

Marking

Our SIWO-KUL® B10 cables have been printed:
NEXANS SWITZERLAND SIWO-KUL® B10 + voltage in kV + section in mm² + Standards + Meter marks

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